Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

No: Second and Final Bill (For Other Works) Date.....20

Division: **Byatarayanapura** Sub-Division: **Byatarayanapura Sub Division**

Bill Received No. Dated Divisional Cash Book Voucher No..... Dated.....

Sub Divisional **Work Code:** 005-20-000009

Schedule Docket No. Head of Account: Est.Cost-**99.00 Lakhs**

Name of Work: **Improvements to Water Tanker Supply in Ward No.05**

Name of Contractor and Full Address: **Executive Engineer, Karnataka Rural Infrastructure development Ltd, #280, 59th cross road,17th 'C' Main road, 3rd 'Y' Block,Rajajinagara, Bangalore-560010.**

Reference to Agreement No: **BBMP/EE/BTP/WO/128/2019-20** Date: **08-11-2019**

Certified that the measurements were taken by me on 7/9/20 and recorded of Pages 494953 to 494967 of measurement Book No. 4950 / 2018-19 and that the work is satisfactorily executed.

Contractor **Officer-in-charge of work**

Certified that the measurement were taken by me on 7/9/20 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

II Memorandum of Payment

1) Total value of work done or supplies made as per account within
2) Deduct amount to be held in reserve being .....percent Rs.....
3) " Balance
4) Deduct Payment:
   a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... Amount adjusted towards cash advance recovery of
   b) Payments Now made { cost store or other material supplied. / recovery of amount creditable to this/other work / Amount paid on this bill Cheque / Cash.
5) Balance being unpaid value of work done held in reserve.
6) Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.
7) Net amount due to or from Contractor unadjustments items.
8) Advance to Contractor for materials brought to site (as detailed) within.
9) Value of Government materials supplied.

Total amount adjusted -

Contractor's Signature

Received Rs..... (in words).....
.....
by cash and by adjustment of Payment as per memorandum (in final settlement of all demands) (For use in the Office)

Witness
1.
2.

Stamp

Dated Signature of Contractor

Paid by me by Cheque No.....Dated.....
Cash Rs.....
Dated.....

Initials of Officer making payment

Executive Engineer

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ABSTRACT

Item No	Description	unit	As per Shedule B			Previous			Present			Total Upto Date		Remarks
			Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Amount	
1	Supply of Drinking Water through water tankers of Capacity 5000 Liters Hiring of Water Tanker Hire Charges of Tractor 40 HP including Operator and Fuel Procurement of Water --Rs 216.00 / Load (5000 Liters) Considering 5000 Liters cost is Rs 108.00/Load Considering 5 Loads/Day 5X108.00=540.00 Engaging Heavy Mazdoor nd directions of Engineer incharge of work	Per Load	6480.00	537.00	3479760	-	-	-	6476.00	537.00	3477612.00	6476.00	3477612	
2	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump /MWS of P W S S by vertical electrical sounding by adopting Venner or Schlumberger's method. including reconnaissance survey of geological formation Geophysical investigation of existing Ground Wate in the vicinity its quality & acceptability of the users indicating the location of site recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 meter in consolidated formation for proper seating of casing pipe depth of drilling required to cover full depth of aquifer proposed to be tapped probable yield and other information required including transportation of instrument and accessories to work site engaging technical personal and labour required etc complete as per specifications and directions of Engineer in charge	Each BW	6.00	1938.46	11630.76	6.00	1938.5	11630.76	0.00	0.00	0.00	6.00	11631	
3	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes collars and cap with necessary cutting threading and welding including transportation of rig and supporting vehicles crew charges and cost of consumables etc complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding cost of casing pipes collars and cap etc.) with all lead and lift loading unloading and labour charges etc complete and as per the directions of the Engineer in-charge of the work 0 to 50 m	Rmtr	300.00	315.18	94554	300.00	315.18	94554	0.00	0.00	0.00	300.00	94554	
3a	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes collars and cap with necessary cutting threading and welding including transportation of rig and supporting vehicles crew charges and cost of consumables etc complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding cost of casing pipes collars and cap etc.) with all lead and lift loading unloading and labour charges etc complete and as per the directions of the Engineer-in-charge of the work 50 to 100 m	Rmtr	300.00	412.00	123600	300.00	412.00	123600	0.00	0.00	0.00	300.00	123600	

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Item No	Description	unit	As per Shedule-B			Previous			Present			Total Upto Date		Remarks
			Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Amount	
3b	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) ,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work 100 to 150 m	Rmtr	300.00	458.35	137505.00	300.00	458.35	137505.00	0.00	0.00	0.00	300.00	137505	
3c	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) ,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work 150 to 200 m	Rmtr	300.00	484.10	145230.00	300.00	484.10	145230.00	0.00	0.00	0.00	300.00	145230	
3d	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) ,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work 200 to 250 m	Rmtr	300.00	560.32	168096.00	300.00	560.32	168096.00	0.00	0.00	0.00	300.00	168096	
3e	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) ,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work 250 to 300 m	Rmtr	300.00	600.49	180147.00	300.00	600.49	180147.00	0.00	0.00	0.00	300.00	180147	

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Item No	Description	unit	As per Shedule-B			Previous			Present			Total Upto Date		Remarks
			Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Amount	
3f	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) ,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work 300 to 370 m	Rmtr	547.60	622.00	340607.20	547.60	622.00	340607.20	0.00	0.00	0.00	547.60	340607	
4	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes) ,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work.	Rmtr	408.00	1364.75	556818.00	408.00	1364.75	556818.00	0.00	0.00	0.00	408.00	556818	
5	Providing and fixing 250mm dia PVC Pipe and complete as per specification and directions of Engineer incharge of work.	Rmtr	60.00	1133.00	67980.00	60.00	1133.00	67980.00	0.00	0.00	0.00	60.00	67980	
6	175mm dia M.S Casing cap complete as per specification and directions of Engineer incharge of work.	Each	6.00	103.00	618.00	6.00	103.00	618.00	0.00	0.00	0.00	6.00	618	
7	M.S. Casing pipe collars 'C' Class complete as per specification and directions of Engineer incharge of work.	Each	68.00	154.50	10506.00	68.00	154.50	10506.00	0.00	0.00	0.00	68.00	10506	
8	Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work.	Sqm	132000.00	0.34	44880.00	132000.00	0.34	44880.00	0.00	0.00	0.00	132000.00	44880	
9	Labour charges for erection as new /repaired submercible pumpset allong with GI pipe (32/50mm) cable (new submercible pumpset if required will be supplied by the department free of cost and released pumpset shoud be handed over to department including transportation (Each lenth =6.00) complete as per specification and directions of Engineer incharge of work.	per length	330.00	90.60	29898.00	330.00	90.60	29898.00	0.00	0.00	0.00	330.00	29898	

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Item No	Description	unit	As per Shedule-B			Previous			Present			Total Upto Date		Remarks
			Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Amount	
10	Erection of combined panel board meter board with all necessary materials and labour including providing CC 1:3:6 foundation bed etc,. Complete for basement out door type.(MR) complete as per specification and directions of Engineer incharge of work.	Nos	6.00	475.00	2850.00	6.00	475.00	2850.00	0.00	0.00	0.00	6.00	2850	
11	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc.,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work.	Nos	18.00	150.00	2700.00	18.00	150.00	2700.00	0.00	0.00	0.00	18.00	2700	
12	Supplying and laying of LT UG cable having aluminum conductor PVC insulated sheathed, galvanized, steel wire/steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 sqmm cable complete as per specification and directions of Engineer incharge of work.	Mtr	210.00	170.00	35700.00	210.00	170.00	35700.00	0.00	0.00	0.00	210.00	35700	
13	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete sutting road surfaces complete as per specification and directions of Engineer incharge of work.	Mtr	210.00	56.65	11896.50	210.00	56.65	11896.50	0.00	0.00	0.00	210.00	11897	
14	Supplying and fixing of class A GI pipe on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class 40mm complete as per specification and directions of Engineer incharge of work.	Mtr	18.00	294.58	5302.44	18.00	294.58	5302.44	0.00	0.00	0.00	18.00	5302	
15	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2 5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through	Nos	6.00	1699.50	10197.00	6.00	1699.50	10197.00	0.00	0.00	0.00	6.00	10197	
16	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class 16sqmmUG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc complete as per specification and directions of Engineer incharge of work.	Nos	6.00	271.92	1631.52	6.00	271.92	1631.52	0.00	0.00	0.00	6.00	1632	
17	Supplying and fixing of polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc.,Size 20 x 20 x 2.5 inches with all lead and lift, loading, unloading and labour charges etc , complete and as per the directions of the Engineer-in-charge of the work.	Nos	6.00	311.58	1869.48	6.00	311.58	1869.48	0.00	0.00	0.00	6.00	1869	
18	Borewell Cap and Clamp Set complete as per specification and directions of Engineer incharge of work.	Set	6.00	1800.00	10800.00	6.00	1800.00	10800.00	0.00	0.00	0.00	6.00	10800	

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Item No	Description	unit	As per Shedule-B			Previous			Present			Total Upto Date		Remarks
			Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Amount	
19	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 17.50 HP 30 stage complete as per specification and directions of Engineer incharge of work.	No	3.00	72126.00	216378.00	3.00	72126.00	216378.00	0.00	0.00	0.00	3.00	216378	
20	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 20 HP 40 stage complete as per specification and directions of Engineer incharge of work..	No	3.00	90595.00	271785.00	3.00	90595.00	271785.00	0.00	0.00	0.00	3.00	271785	
21	Providing, laying & joining GI pipes confirming to IS specification of approved make with fittings such as collars bends elbows tees nipples plugs with cuts threads using white lead & threads for joints wherever necessary as per direction including all lead & lift etc,. complete 'A' grade(excluding cost of fittings) 50mm dia GI pipe B Class complete as per specification and directions of Engineer incharge of work.	Rmtr	1980.00	415.00	821700.00	1980.00	415.00	821700.00	0.00	0.00	0.00	1980.00	821700	
22	Supply and fixing Collar for GI Pipes 50MM complete as per specification and directions of Engineer incharge of work.	Nos	330.00	180.00	59400.00	330.00	180.00	59400.00	0.00	0.00	0.00	330.00	59400	
23	Supplying of submersible pump cable 1X3X6 Sqmm complete as per specification and directions of Engineer incharge of work.	Mtr	4080.00	144.00	587520.00	4080.00	144.00	587520.00	0.00	0.00	0.00	4080.00	587520	

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Item No	Description	unit	As per Shedule-B			Previous			Present			Total Upto Date		Remarks
			Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Amount	
24	Supplying & delivery at site brand new / Essen / lotus sunsines/Adarsh/Gk controls best indigenous make combine energy meter-cum-control panel board unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph,50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs should be provided inside the door canopy apron and louvers ventilators shall be provided the combine energy mtr cum control panel board unit suitable for operation on 3ph, 50Hz,380/440 AC supply shall be consisted etc., completed T panel board shall be fabricated on single unit in the above components panel board for suitable pumpset above components panel board for suitable pumpset above Up to 20HP with star delta starter (MR) complete as per specification and directions of Engineer incharge of work.	No	6.00	21000.00	126000.00	6.00	21000.00	126000.00	0.00	0.00	0.00	6.00	126000	
25	Supplying & delivery of brand 50mm Gate Valve complete as per specification and directions of Engineer incharge of work..	No	6.00	1800.00	10800.00	6.00	1800.00	10800.00	0.00	0.00	0.00	6.00	10800	
26	Supplying & delivery of brand 50mm Non Return Valve complete as per specification and directions of Engineer incharge of work.	No	6.00	1800.00	10800.00	6.00	1800.00	10800.00	0.00	0.00	0.00	6.00	10800	
27	Supplying and fixing MCB complete as per specification and directions of Engineer incharge of work.	No	6.00	900.00	5400.00	6.00	900.00	5400.00	0.00	0.00	0.00	6.00	5400	
28	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in Ordinary soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications and directions of Engineer in charge.	Cum	678.78	316.94	215132.53	678.78	316.94	215132.53	0.00	0.00	0.00	678.78	215133	
29	Providing and installing at site of work 63mm (0.662) PVC Pipes of 6kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including joining of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete as per specification and directions of Engineer incharge of work.	Mtr	1508.40	394.32	594792.29	1508.40	394.32	594792.29	0.00	0.00	0.00	1508.40	594792	

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Item No	Description	unit	As per Shedule-B			Previous			Present			Total Upto Date		Remarks
			Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Amount	
30	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1 5m including cost of all labour complete as per specifications and directions of Engineer incharge of work	Cum	678 78	128.26	87060.3228	678.78	128 26	87060 3228	0 00	0 00	0.00	678 78	87060	
31	BESCOM CHARGES				87000			79302					79302	
	SUB TOTAL AMOUNT				8568545.044			5081087.044			3477612.00		8558699.04	
	Add KRIDL @ 4%				342741			203222.64			139104.48		342327.12	
	GST @12%				790119			371561.55			417313.44		788874.99	
	TOTAL AMOUNT				9701405.044			5655871.234			4034029.92		9689901.15	

Certificate

1 The Work executed by the contractor is found satisfactory

2 The contractor has removed the debris from the work spot

3 Thereare no departmental issues for this work

Contractor

Asst Engineer

Asst Executive Engineer

Executive Engineer

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